THOMPSON HALL

The Four-Year Courses of Study

Given by the

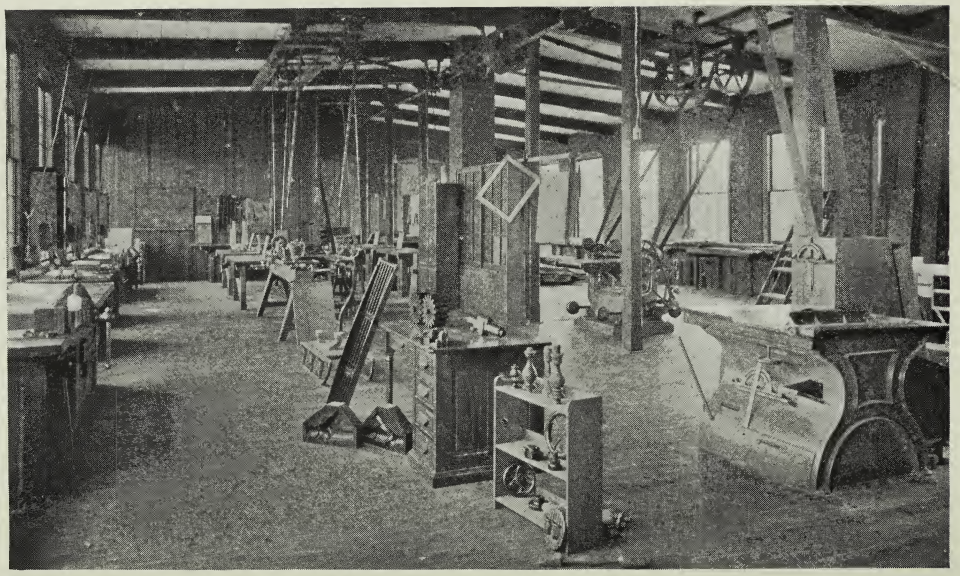
New Hampshire College

of

Agriculture and the Mechanic Arts

Durham

Circular 15
May, 1898



THE WOOD SHOP.

I. Course in Agriculture.

STUDIES.

Agriculture
Algebra
Bacteria
Birds
Botany
Butter-making
Chemistry
Constitutional Law
Dairying
Domestic Animals
Drawing
Diseases of Crops
English Language
English Literature
Ethics
Fertilizers
Floriculture
Forage Crops
Forestry
French
Fruits
Geology
German
Insects
Laws of Business
Logic
Meteorology
Minerals
Military Tactics
Physics
Political Economy
Roads
Soils
Stock-feeding
Surveying
Wood Working
Vegetables
Zoölogy

This course is designed to give a training in agriculture that is thoroughly practical as well as scientific, with as much general educational study as is possible.

During the last few years the course has been strengthened by the addition of new studies, by great improvement in facilities for practical instruction, and by increasing the number of instructors. Students in this course study with sixteen members of the faculty or other instructors.

Graduates from this course have become successful farmers, managers of farms and of creameries, and experiment station investigators.

II. Course in Mechanical Engineering.

STUDIES.

Algebra
Analytic Geometry
Applications of Electricity
Carpentry
Chemical Laboratory
Chemistry
Descriptive Geometry
Differential Calculus
Dynamos
Electricity
Electro-motors
English Language
English Literature
Free-hand Drawing
French
Gas Engine
Geometry
German
Heat
Heat Motors
Integral Calculus
Joinery
Light
Machine Design
Materials of Construction
Mechanical Drawing
Mechanical Laboratory
Mechanics
Mechanics of Engineering
Mechanism
Metal Work
Military Tactics
Mineralogy
Moulding
Pattern Making
Perspective Drawing
Physical Laboratory
Physics
Political Economy
Sound
Steam Engine
Surveying
Thermodynamics
Trigonometry

The special object of the course is to educate young men in the scientific branches relating to the design, construction, care, and operation of machinery.

The subjects studied may be broadly divided into (1) the mathematical, forming the foundation of the course; (2) the technical, pertaining directly to the professional work of the engineer; and (3) the general, having less direct bearing upon the professional work, but affording the student greater breadth of education, and fitting him for the larger duties of citizenship.

The study of the scientific principles underlying the work of the engineer is accompanied throughout the course by actual practice in mechanical operations and in scientific research. In the workshops the student learns the use of tools for working in wood and in metals. In the mechanical laboratory he makes tests of the properties of materials, of the power of steam engines, pumps, dynamos, and other machines. In the chemical and the physical laboratories he learns by experiment the effects of the operation of the forces of nature.

Recent graduates of the course are occupied as civil, mechanical, and electrical engineers, draftsmen, and machine-shop foremen.

III. Course in Electrical Engineering.

The aim of the course is to meet the needs of young men who intend to enter the practice of electricity in its various applications.

The basis of the course is physics, especially its electrical side, mathematics, and mechanical engineering.

The general education of the student is, however, kept in mind, and the subject matter of the junior and senior years is intended not only to strengthen this part of the development, by teaching him to think and act for himself, but also to awaken a lively and intelligent interest in the work before him.

STUDIES.

Algebra
Analytic Geometry
Applications of Electricity
Chemistry
Descriptive Geometry
Dynamics
Electricity
Electro-motors
English Language
English Literature
Free-hand Drawing
French
Geometry
German
Heat
Heat Motors
Integral Calculus
Light
Materials of Construction
Mechanical Drawing
Mechanics
Mechanics of Engineering
Mechanism
Metal Work
Military Tactics
Mineralogy
Perspective Drawing
Physics
Political Economy
Sound
Surveying
Theoretical Electricity
Thermodynamics
Trigonometry
Wood Work

IV. Course in Technical Chemistry.

STUDIES.

Algebra
Assaying
Blowpipe Analysis
Calculus
Chemical Philosophy
Dynamos
Electro-Motors
Electric Measurements
English Language
English Literature
Free-hand Drawing
French
Geology
Geometry
German
German Chemical Journals
Heat
Industrial Chemistry
Inorganic Chemistry
Light
Mechanical Drawing
Mechanics of Engineering
Mechanism
Metal Work
Military Tactics
Mineralogy
Organic Chemistry Lectures
Physical Chemistry
Physical Laboratory
Physics
Physiological Chemistry
Political Economy
Qualitative Analysis
Quantitative Analysis
Sanitary Chemistry
Thermodynamics
Trigonometry
Wood Work

The course in Technical Chemistry is designed to give thorough training in the science of chemistry and its allied subjects, and to meet the requirements of the chemical engineer.

Excellent laboratory facilities are provided, furnished with the most modern apparatus. The laboratories are also supplied through pipes with water, gas, suction, high and low pressure steam, and are wired to use any electric current required.

Positions in colleges, experiment stations, sugar houses, fertilizer works, and manufacturing establishments have been filled by graduates from the chemical courses, while others have used these courses as a preparation for the medical profession or for study abroad.

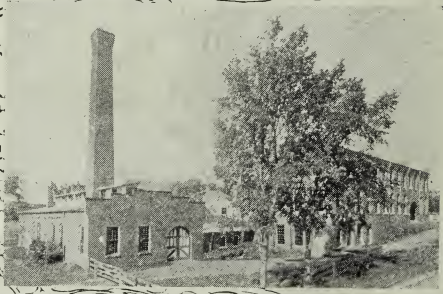
V. The General Course.

This course gives to students an opportunity to take parts of the courses in Agriculture and the Mechanic Arts; to pursue the study of English, French, German, and history each for two or more years; to devote to philosophy nearly two years, and to mathematics and the sciences the time usually allowed in colleges. With its arrangement of elective studies, it is fitted to serve at the same time as a course for women and as a preparation for teaching, professional study, or for business life.

Several of the recent graduates from this course have engaged in teaching. Others have taken graduate courses or entered business or editorial work.

STUDIES.

Agriculture (elective)
Algebra
American Literature
Analytic Geometry (elective)
Astronomy
Botany
Calculus (elective)
Chemistry
Constitutional Law
Drawing
English Literature
Ethics
French
Geology
Geometry
German
History
History of Philosophy
International Law
Laws of Business
Logic
Meteorology
Mineralogy
Military Tactics
Physics
Political Economy
Psychology
Roads (elective)
Surveying
Wood Working
Zoölogy



Conant Hall (Science Building).

Shops and Power Station.

Thompson Hall. Nesmith Hall (Experiment Station).